

Response

Applicant: Daniel J. McGurran et al.

Serial No.: 09/872,532

Filed: June 1, 2001

Docket No.: M120.221.101 / 56763US002

Title: COLOR STABLE PIGMENTED POLYMERIC FILMS HAVING DYES FOR COLOR ADJUSTMENT

THE CLAIMS

1.(Previously Presented) A pigmented optical body comprising at least one layer of a thermoplastic polymer material, wherein dispersed within the polymer material is between 0.01 and 1 percent by weight of a particulate pigment having a mean diameter no more than 500 nm, wherein the optical body exhibits a transmission of light within a wavelength band of interest within the visible spectrum of from 5% to 90%, wherein the dispersed particulate pigment imparts a substantial transmitted color to the optical body, the optical body further comprising at least one dye added in an amount sufficient to adjust the transmitted color of the optical body to a substantially neutral gray.

2.(Original) The body of claim 1, wherein the optical body has an a* value and a b* value in the range of +- 5.

3. – 9.(Canceled)

10.(Original) The body of claim 1, wherein the body exhibits an internal haze of no more than 5%.

11.(Original) The body of claim 1, wherein the at least one dye is disposed in the at least one layer of thermoplastic polymer material.

12.(Canceled)

13.(Original) The body of claim 1, wherein the at least one dye adjusts the transmitted color of the optical body by no more than 15 units of a* and by no more than 15 units of b*.

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14.(Previously Presented) A pigmented optical body comprising at least one layer of a thermoplastic polymer material having dispersed therein a particulate pigment in an amount effective to produce a tint perceptible to an observer, wherein the optical body exhibits a transmission of light within a wavelength band of interest within the visible spectrum of from 5 to 90% and exhibits an internal haze of less than or equal to 5%, the optical body further comprising at least one dye in an amount effective to adjust the color of the optical body by no more than 15 units of a^* and by no more than 15 units of b^* .

15.(Original) The body of claim 14, wherein the body has a substantially neutral gray color.

16.(Original) The body of claim 15, wherein the body has an a^* value and a b^* value in the range of -1.5 ± 1 .

17.(Original) The body of claim 14, wherein the at least one layer is a single layer and the optical body consists essentially of the single layer.

18.(Original) The body of claim 14, wherein the particulate pigment has a mean diameter of no more than 500 nm.

19.(Original) The body of claim 14, wherein the at least one dye is disposed in the at least one layer of thermoplastic polymer material.

20.(Canceled)

21.(Previously Presented) The body of either claim 1 or claim 14, wherein the body further comprises a rigid window member to which the at least one layer is laminated.

22.(Previously Presented) The body of claim 1, wherein the at least one dye is copolymerized in the polymer material.

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23.(Previously Presented) The body of claim 14, wherein the at least one dye is co-polymerized in the polymer material.

24.(Currently Amended) The body of claim 1, wherein the particulate pigment comprises carbon black.

25.(Previously Presented) The body of claim 24, wherein the at least one dye comprises a blue dye.

26.(Previously Presented) A window film comprising at least one layer of a cast, oriented, polyester-containing polymer material having a thickness of between 0.3 and 3 mm, the at least one layer having dispersed therein between 0.02 and 0.5 percent by weight carbon black particulate pigment having a mean diameter of no more than 500 nm and a blue dye in an amount sufficient to adjust the transmitted color of the window film to a substantially neutral gray, and wherein the window film exhibits a transmission of light within a wavelength band of interest within the visible spectrum of from 5 to 90% and exhibits an internal haze of less than or equal to 5%.

27.(Previously Presented) A window film consisting essentially of at least one layer of a cast, oriented, polyester-containing polymer material having a thickness of between 0.3 and 3 mm, the at least one layer having dispersed therein between 0.02 and 0.5 percent by weight carbon black particulate pigment having a mean diameter of no more than 500 nm and a blue dye in an amount sufficient to adjust the transmitted color of the window film to a substantially neutral gray, and wherein the window film exhibits a transmission of light within a wavelength band of interest within the visible spectrum of from 5 to 90% and exhibits an internal haze of less than or equal to 5%.